Water in Silicone Foundation with AS Pigments

The AS treated pigments wet well in the external oil/silicone phase without flotation or plate out.

Ingredient	INCI Name	Supplier	%
Phase 1			
Abil® EM-90	Cety/PEG/PPG 10/1 Dimethicone	Evonik	.45
Abil® WE-09	Polyglyceryl-4 Isostearate, Cetyl/PEG/PPG 10/1	Evonik	1.75
	Dimethicone Hexyl Laurate		
Abil® 9801	Cetyl Dimethicone	Evonik	1.80
Phase 2			
Dowsil™ FZ-3196	Caprylyl Methicone	Dow Chemical	2.10
Xiameter® PMX-200 Silicone Fluid	Dimethicone	Dow Chemical	1.30
Ceraphyl® 368	Ethylhexyl Palmitate	Ashland	7.00
AS-5812 Alkyl Silane treated Titanium Dioxide	Titanium Dioxide, Triethoxycaprylylsilane	Color Techniques	7.50
AS-5131 Alkyl Silane treated Yellow Iron Oxide	Iron Oxides, Triethoxycaprylylsilane	Color Techniques	.70
AS-5126 Alkyl Silane treated Red Iron Oxide	Iron Oxides, Triethoxycaprylylsilane	Color Techniques	.35
AS-5146 Alkyl Silane treated Black Iron Oxide	Iron Oxides, Triethoxycaprylylsilane	Color Techniques	.05
AS-50230 Alkyl Silane Treated Talc	Talc, Triethoxycaprylylsilane	Color Techniques	3.90
Phase 3			
Gransil PS	Cyclomethicone, Polysilicone-11	Grant Industries	15.00
Phase 4			
Deionized Water	Aqua/Water		51.70
Sodium Chloride	Sodium Chloride		.50
Butylene Glycol	Butylene Glycol		5.30
Hydrolite® CG	Caprylyl Glycol	Symrise	.10
Benzoic Acid	Benzoic Acid		.50
			100.00

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Manufacturing Procedure:

1- Combine Phase 1 and 2 with agitation. Mill with high shear agitation until no undispersed pigment remains. Add Phase 3 with homogenization until no lumps remain.

2- Combine water and NaCl of Phase 4 in a separate vessel. Heat to 40° C.

3- Dissolve Phase 4 Benzoic Acid and Hydrolite® CG in Butylene Glycol. Add to the water/sodium chloride with stirring. Cool to 35° C.

4- Slowly add Phase 4 to combined Phases 1-3 with side sweep or moderate homogenizer agitation, just sufficient to take up the water as it is added.

5- When combined, cool to 30° C. Pass through a colloid mill or homogenize 5-15 minutes prior to dropping the batch.

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